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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/797,899	03/10/2004	Frank J. Prineppi	ORALWAVE (144*407)	5054	
7590 07/09/2004			EXAMINER		
Connolly Bove Lodge & Hutz LLP P.O. Box 2207			BALSIS, SHAY L		
- · - · · - · · · · · · · · ·	DE 19899-2207		ART UNIT	PAPER NUMBER	
			1744		
			DATE MAIL ED. 07/00/200	DATE MAIL ED. 07/00/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/797,899	PRINEPPI, FRANK	J.			
Office Action Summary	Examiner	Art Unit				
	Shay L Balsis	1744				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet	with the correspondence addr	'ess			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of t will apply and will expire SIX (6) Min, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this commoderate the mailing date of this commoderate (35 U.S.C. § 133).	munication.			
Status						
1) Responsive to communication(s) filed on 17 Ju	ine 2004.					
	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-23 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) acce		-				
Applicant may not request that any objection to the o	31,	` ,	4.4047.0			
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Example 11.	·	- , ,	` '			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioric application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in ity documents have been (PCT Rule 17.2(a)).	Application No n received in this National St	age			
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/17/04.	Paper No	y Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-1: 	52)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6, lines 6-7 states, "extending toward the other of said first brush head and said second brush head, said other of said brush head and said second brush head having a guide slot,". Examiner believes that that applicant mean to say—said other of said first brush head and said second brush head having a guide slot-

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 5-13, 15-17 and 19-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Belaschk et al. (USPN 2140307).

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Belaschk teaches an electric toothbrush comprising a first brush head (56) and a second brush head (60) mounted in a brush head holder. Each brush head is disc shaped with bristles (57, 61) extending outwardly from each brush head. An electric motor (11) is mounted in a hollow housing (10) and the brush head holder is detachable from the housing. The first brush head is located between the electric motor and the second brush head. There are two sets of pivot structures (55, 59) on the brush head holder for mounting a brush to each pivot structure. There is a drive shaft (51) connecting the motor and first brush head. There is a drive pin (teeth of gearing) that extends between the first and second brush heads. The drive pin is fixed to the first brush head and fits in a slot (area between teeth on gears) on the second brush head. The motor is then actuated and the drive shaft rotates causing the first brush head to rotate and thereby causes movement of the drive pin, which is used to rotate the second brush head. The electric toothbrush may further comprise a third brush head with a guide slot (area between teeth of gears). The slot on the third brush head receives a drive pin (teeth of gearing) from the second brush head and causes the third brush head to rotate when the first and second brush heads rotate. The first brush head and the second brush head each rotate in a plane. The plane of the second brush head is at an angle of 180 degrees with respect to the plane of the first brush head.

Claims 1-8, 10-14, 16-17, 19-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Mei (USPN 5617603).

Mei teaches an electric toothbrush comprising a first brush head (3) and a second brush head (4) mounted in a brush head holder. An electric motor (not shown) is mounted in a hollow housing (not shown) and the brush head holder is detachable from the housing. The first brush head is located between the electric motor and the second brush head. There are two sets of

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pivot structures (34, 43) on the brush head holder for mounting a brush to each pivot structure. There is a drive shaft (6) connecting the motor and first brush head. There is a drive pin (5) that extends between the first and second brush heads. The drive pin is fixed or secured to the first brush head and fits in a slot (42) on the second brush head. The drive pin is mounted in a cantilevered manner to the first brush head. The end of the drive pin that fits in the second brush head is in the form of a ball (51). The motor is then actuated and the drive shaft rotates causing the first brush head to rotate and thereby causes movement of the drive pin, which is used to rotate the second brush head. The first brush head and the second brush head each rotate in a plane. The plane of the second brush head is at an angle of 180 degrees with respect to the plane of the first brush head.

Claims 1-3, 5-8, 10-13, 17-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Gruber et al. (USPN 6463615).

Gruber teaches an electric toothbrush comprising a first brush head (20) and a second brush head (26) mounted in a brush head holder. An electric motor (not shown) is mounted in a hollow housing (not shown) and the brush head holder is detachable from the housing. The first brush head is located between the electric motor and the second brush head. There are two sets of pivot structures (32, 24) on the brush head holder for mounting a brush to each pivot structure. There is a drive shaft (6) connecting the motor and first brush head. There is a drive pin (25) that extends between the first and second brush heads. The drive pin is fixed to the first brush head and fits in a slot (35, 36) on the second brush head. The motor is then actuated and the drive shaft rotates causing the first brush head to rotate and thereby causes movement of the drive pin, which is used to rotate the second brush head. The first brush head and the second brush head

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each rotate in a plane. The plane of the second brush head is at an angle of 180 degrees with respect to the plane of the first brush head, when not in use. Once it is turned on the second brush head vibrates up and down which creates an angle between the first and second brush head wherein the second brush head would be inclined toward the first brush head.

Claims 6-8, 13, 15, 17-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Hazeu et al. (USPN 5836030).

Hazeu teaches an electric toothbrush comprising a first brush head (14) and a second brush head (16) mounted in a brush head holder. An electric motor (28) is mounted in a hollow housing (2) and the brush head holder is detachable from the housing. The first brush head is located between the electric motor and the second brush head. There are two sets of pivot structures (70, 72) on the brush head holder for mounting a brush to each pivot structure. There is a drive shaft (33) connecting the motor and first brush head. There is a drive pin (68) that extends between the first and second brush heads. The drive pin is fixed to the second brush head and fits in a slot (64, 66) on the first brush head. The motor is then actuated and the drive shaft rotates causing the first brush head to rotate and thereby causes movement of the drive pin, which is used to rotate the second brush head. The first brush head and the second brush head each rotate in a plane. The plane of the second brush head is at an angle of 1-40 degrees with respect to the plane of the first brush head (col. 12, lines 5-34).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mei or Gruber et al or Hazeu et al.

Mei or Gruber or Hazeu disclose all the essential elements of the claimed invention however, the reference fails to teach two disc shaped brush heads. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use disc shaped brush heads because Applicant has not disclosed that disc shaped brush heads provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either the shape of the brush heads as taught by Mei or Gruber or Hazeu or the claimed disc shape because all the shapes perform the same function of cleaning a users teeth equally well]. Therefore, it would have been obvious to one of ordinary skill in the art to modify Mei or Gruber or Hazeu to obtain the invention as specified in claim 9.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Belaschk et al. in view of Hohlbein (USPN 6314606) or Mei in view of Hohlbein (USPN 6314606).

Belaschk and Mei teach all the essential elements of the claimed invention however the references fail to teach that the second brush head is angled inward toward the first brush head relative to the plane of rotation. Hohlbein teaches a toothbrush comprising a first (14) and

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second brush head (16), wherein the second brush head is angled inward toward the first brush

head as shown in figure 6. It would have been obvious to one of ordinary skill in the art at the

time the invention was made to angle Belaschk's and Mei's second brush head inward since "a

curved/angles bristle surface configuration offers improved access to hard-to-reach areas such as

the lingual surfaces of the front teeth, and behind the molars, placing more bristles in contact

with the outer surfaces of the front teeth" ('606, col. 1, lines 24-28).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shay L Balsis whose telephone number is 571-272-1268. The

examiner can normally be reached on 7:30-5:00 M-Th, alternating F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert J. Warden can be reached on 571-272-1281. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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Slb 7/2/04

ROBERT J. WARDEN, SN. SUPERVISORY PATENT EXAMINER

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